**Chemical Sciences - 2**

**Expert Group Member 1:**

**Acidic substances found within home or garden:**

Coke: Substance is commonly found within a home and is used for drinking purposes but also used in certain experiments as well. This substance has an acidic level of 2.5 where as you compare that to water with a neutral pH level of 7.

Vinegar: Vinegar is commonly found within a home and it is used for the creation and preparation of food, as a home remedy treatment and cleaning. This substance contains a pH level of 2.4 – 3.4 dependent upon the brand and the ingredients it is made from.

**Alkaline substances found within home or garden:**

Limestone powder: This object is found within the garden shed normally and is used to take acidity out of the soil to make it neutral in order grow a garden etc. It is seen as a controller of the acidity in the soil. The pH level of the limestone powder is 9.3 to 9.8 – this is considered to be an alkaline substance.

Baking soda: Baking soda is an alkaline substance because baking soda has enough alkalinity to power through grease and dirt, but not enough to make it corrosive. This object is commonly found in the home and its main purposes are for cooking and cleaning. The acidity level of this item is 8 – 9.

**Why is understanding the pH level important for gardeners and farmers:**Mainly it is to do with certain plants only grow in certain pH levels of soil, if farmers understand this they can alter the pH level of soil in order to plant certain plants in a region which will create more business for example because people of that area may not have that fruit or vegetable. Also, it deters the occurrence of diseases that happen within